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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/814,264	03/21/2001	Osamu Kozakai	450100-03070	5582
20999 75	590 02/12/2004		EXAMINER	
FROMMER LAWRENCE & HAUG			LE, HOANGANH T	
745 FIFTH AV NEW YORK,	ENUE- 10TH FL. NY 10151		ART UNIT PAPER NUMBER	
11211 10144,			2821	
			DATE MAILED: 02/12/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
•	09/814,264	KOZAKAI	
Office Action Summary	Examiner	Art Unit	
	HoangAnh T Le	2821	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet	vith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by st. - Any reply received by the Office later than three months after the mearmed patent term adjustment. See 37 CFR 1.704(b). Status	N. R 1.136(a). In no event, however, may a reply within the statutory minimum of the riod will apply and will expire SIX (6) MC atute, cause the application to become a	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication BANDONED (35 U.S.C. § 133).	n.
1)⊠ Responsive to communication(s) filed on 0.	4 December 2003.		
	his action is non-final.		
Since this application is in condition for allo closed in accordance with the practice under the condition of the condition is in condition for allo closed in accordance.			S
Disposition of Claims			
 4) Claim(s) 1-10 is/are pending in the applicate 4a) Of the above claim(s) is/are with 5) Claim(s) is/are allowed. 6) Claim(s) 1-10 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and continuous formula. 	drawn from consideration.		·
Application Papers	,		
9)☐ The specification is objected to by the Exam	niner.		
10) The drawing(s) filed on is/are: a) □ a	accepted or b)⊡ objected to	by the Examiner.	
Applicant may not request that any objection to	the drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the cor	rection is required if the drawin	g(s) is objected to. See 37 CFR 1.121(d).
11)☐ The oath or declaration is objected to by the	Examiner. Note the attache	ed Office Action or form PTO-152.	
Priority under 35 U.S.C. §§ 119 and 120			
12) Acknowledgment is made of a claim for force a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International Bur * See the attached detailed Office action for a 13) Acknowledgment is made of a claim for dome since a specific reference was included in the 37 CFR 1.78. a) The translation of the foreign language 14) Acknowledgment is made of a claim for dome reference was included in the first sentence of	ents have been received. ents have been received in priority documents have bee reau (PCT Rule 17.2(a)). list of the certified copies not estic priority under 35 U.S.C. efirst sentence of the specific provisional application has lestic priority under 35 U.S.C.	Application No In received in this National Stage It received. It is \$ 119(e) (to a provisional application or in an Application Data Sheepeen received. It is \$ \$ 120 and/or 121 since a specific	eet. C
Attachment(s)	🗖		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)	

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DETAILED ACTION

1. The amendment filed on December 04, 2003 is acknowledged.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rutkowski et al (the US Patent No. 6,198,442, of record) in view of Vannatta et al (the US Patent No. 5,977,916, of record).

The Rutkowski et al reference teaches in the figure 5 an antenna apparatus for receiving or transmitting radio waves at two different frequencies, comprising: a pair of antenna elements 53a,53b having different resonant frequencies, and a pair of phase shift circuits 55a,55b for shifting phase of the radio waves (col. 6, lines 24-31), wherein feed points of the pair of antenna elements are connected to a radio circuit via the pair of phase shift circuits, respectively (see the figure 5). The antennas 53a,53b are electrically connected in parallel (figures 5-7). Each antenna is operable to receive or transmit the radio waves at a different frequency (col. 5, lines 7-13). One of the phase shift circuits which are coupled to the one of the antenna elements shifts phase of the radio waves so as to increase an impedance of the one of the antenna elements at the

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resonance frequency of the other one of the antenna elements (col. 6, lines 11-23). The phase shift circuit comprises a lumped circuit 55a,55b. The phase shift circuit comprises a distributed constant circuit (col. 6, lines 6-31). Rutkowski et al. do not teach the antennas being one of a pair of dipole antennas, loop antennas, plane inverted F pattern antennas and inverted L pattern antennas.

The Vannatta et al reference teaches in figure 6 the use of a pair of plane inverted F pattern antennas 651,653,657, 658 in order to increase the performance of the antenna 650 (col. 5, line 8).

Since one of ordinary skill in the art would recognize the benefit of improving the performance of the antenna, it would have been obvious to provide Rutkowski et al with a pair of plane inverted F pattern antennas as taught by Vannatta et al.

Response to Arguments

- 4. Applicant's arguments with respect to claims 1-10 have been considered but are moot in view of the new ground(s) of rejection.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to HoangAnh T Le whose telephone number is (571) 272-1823. The examiner can normally be reached on 8:00am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on (571) 272-1834. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Hoanganh Le Primary Examiner